Washington Latin

Honors Pre-Calculus

y

*f(x)*

x

Graph f(- x), -f(x), f ⎢x ⎢ and f(-⎢x ⎢)

Answer Key

f(- x) is symmetric to f(x) around the y-axis:

y

x

-f(x) is symmetric with f(x) around the x-axis: y

x

f ⎢x ⎢ itself is symmetric around the y - axis because whether x is positive or negative, both have the same absolute value and therefore the same y-value.

y

x

f(-⎢x ⎢), is also symmetric itself around the y-axis, however, it draws from the left of the y-axis, because -⎢x ⎢ is always negative.

y

x